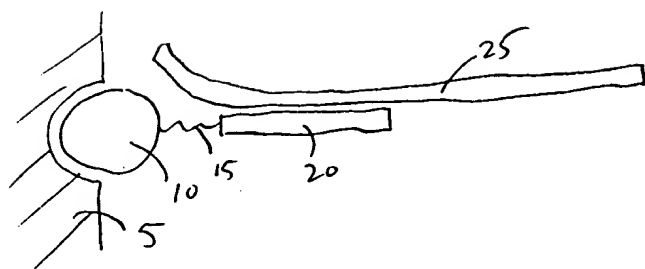
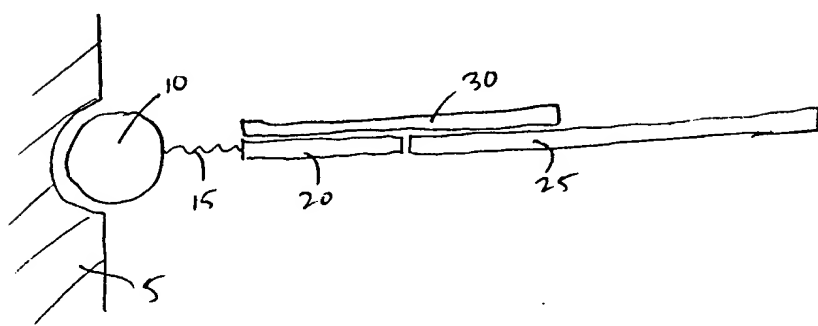


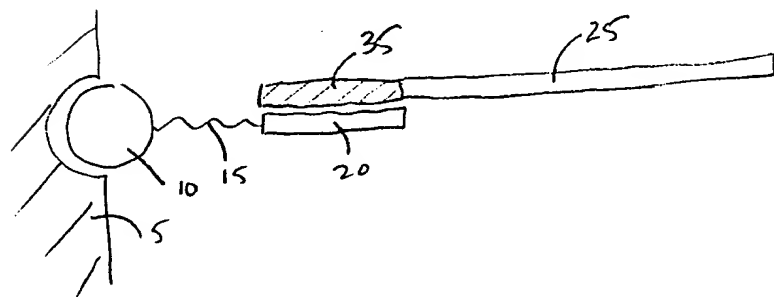
000240" E66E9560



A

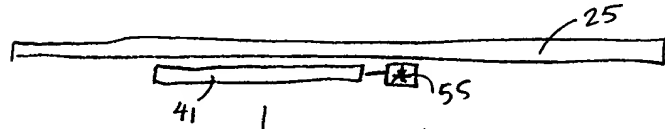
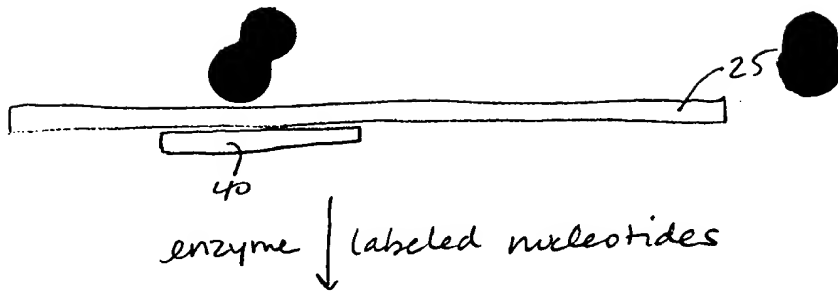


B



C

Fig 1



repeat
↓
add to array

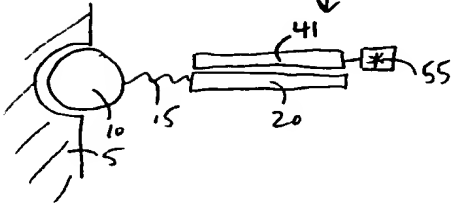
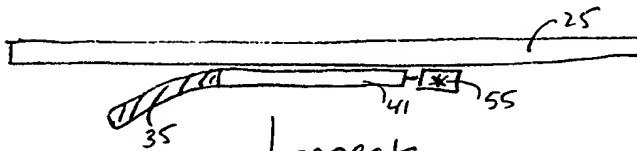
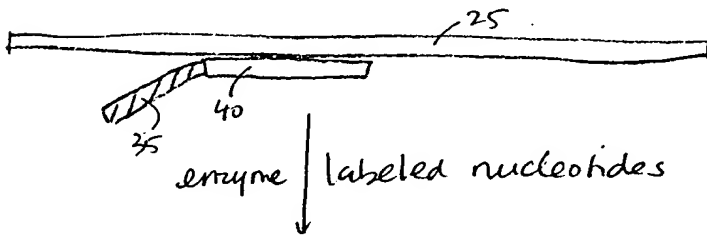


Fig 2A



repeat
↓
add to array

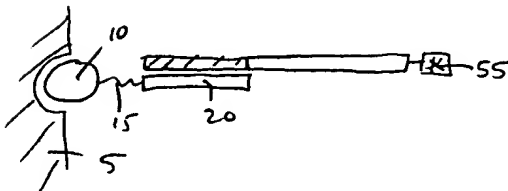


Fig 2B

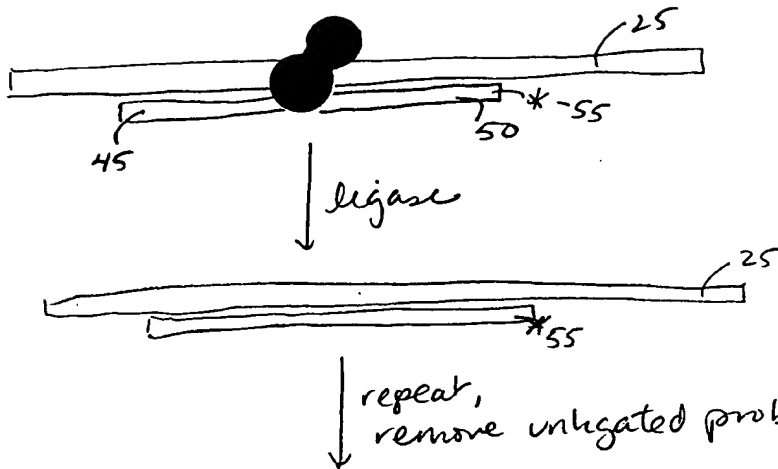


Fig 3A

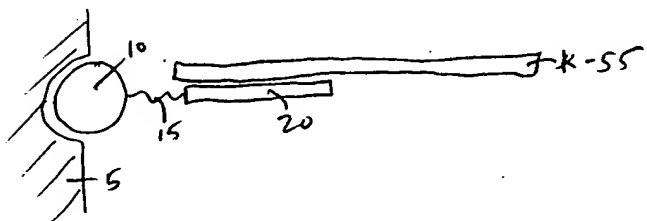
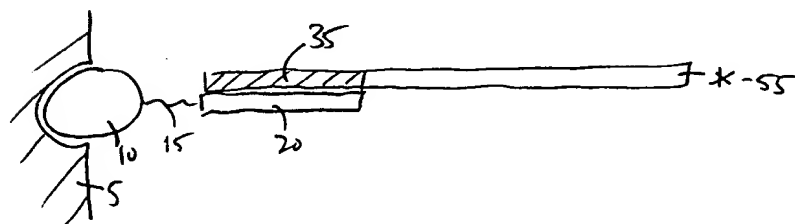
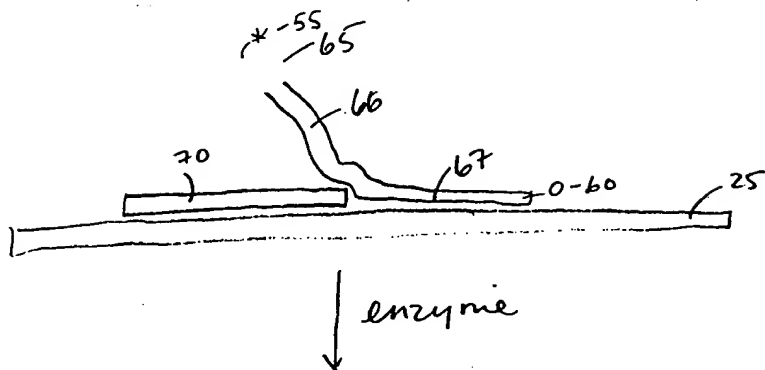


Fig 3B





repeat, remove
uncleaved probes if required

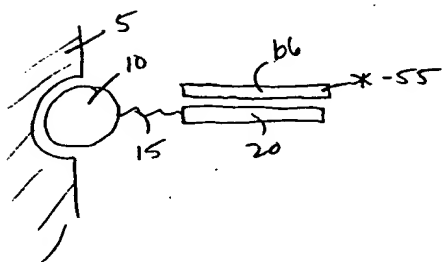


Fig 4

000240" E66E5560

Fig 5A

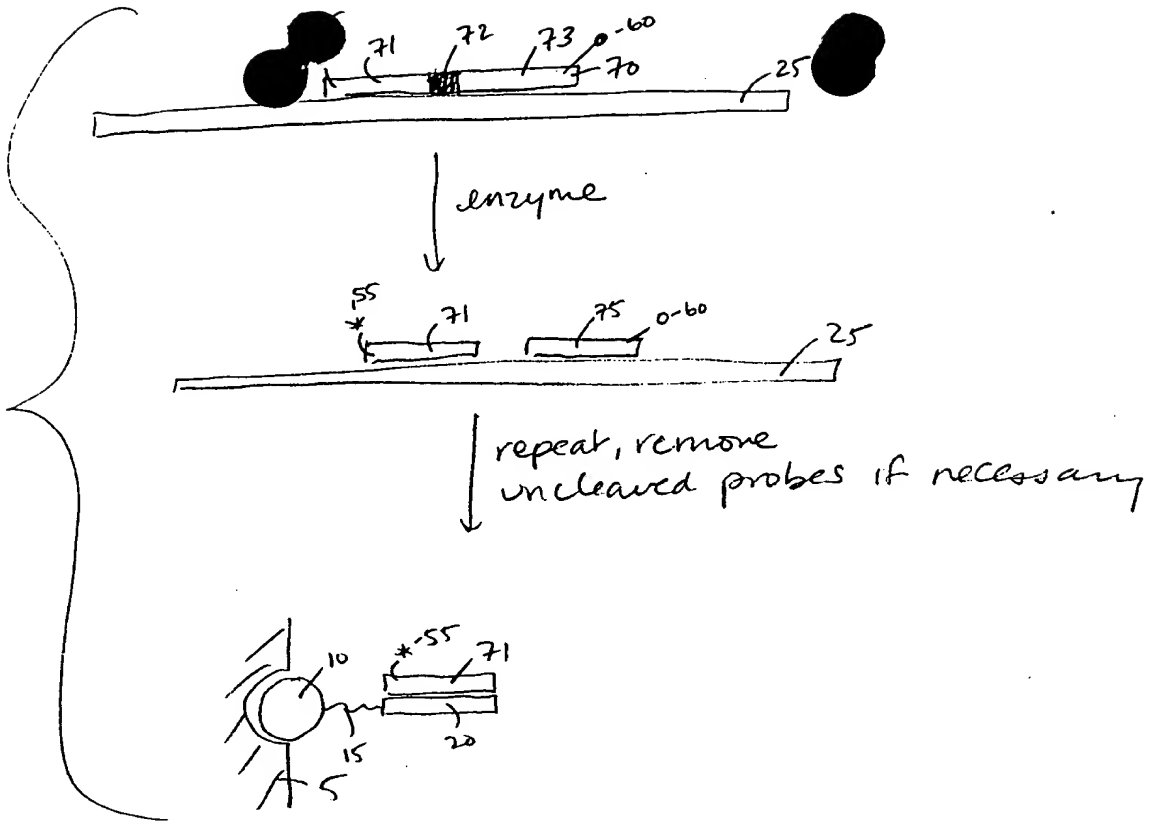
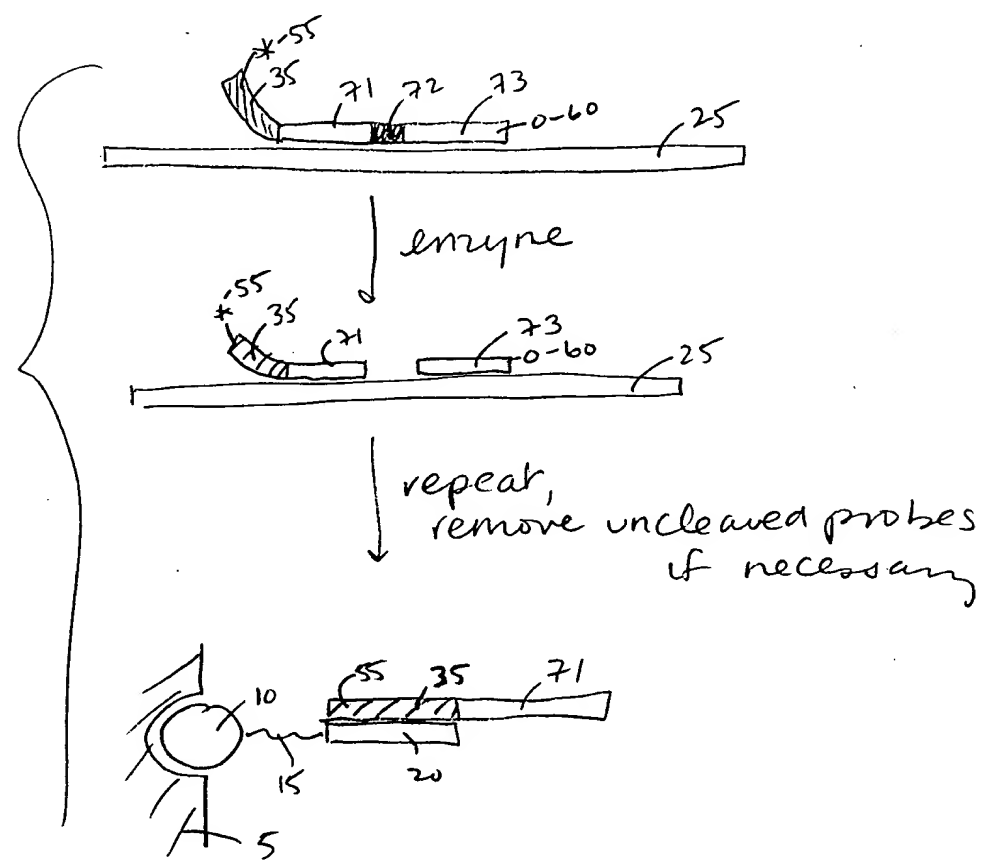
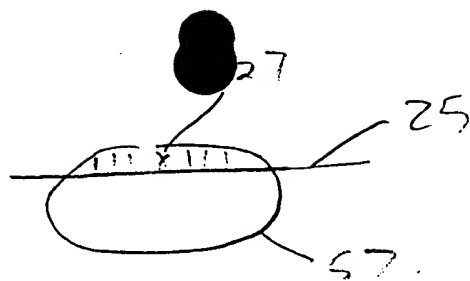
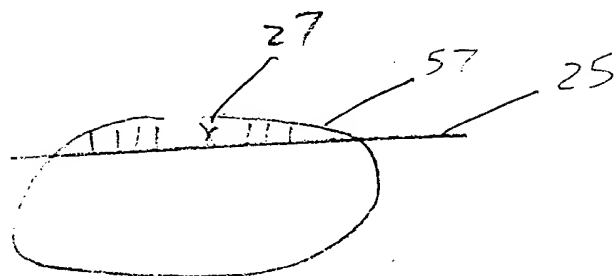
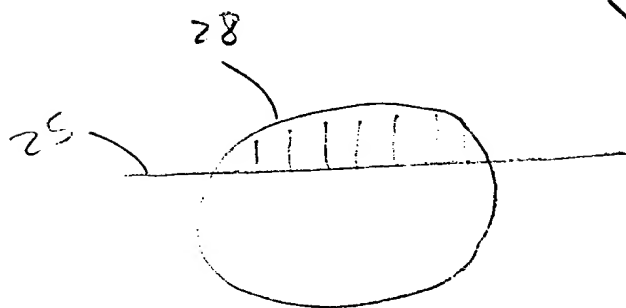


Fig 5B

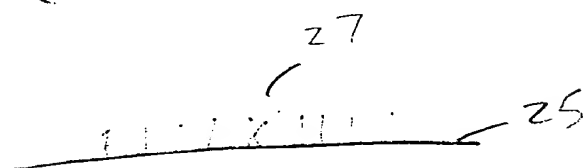
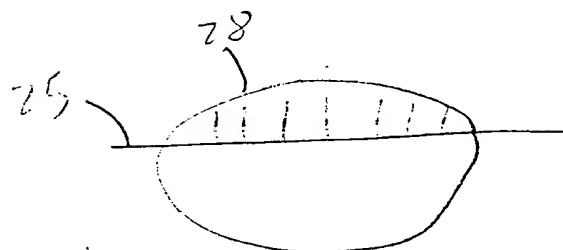




↓ Ligase



↓ Wash



Polymerase
NTPS^{*}

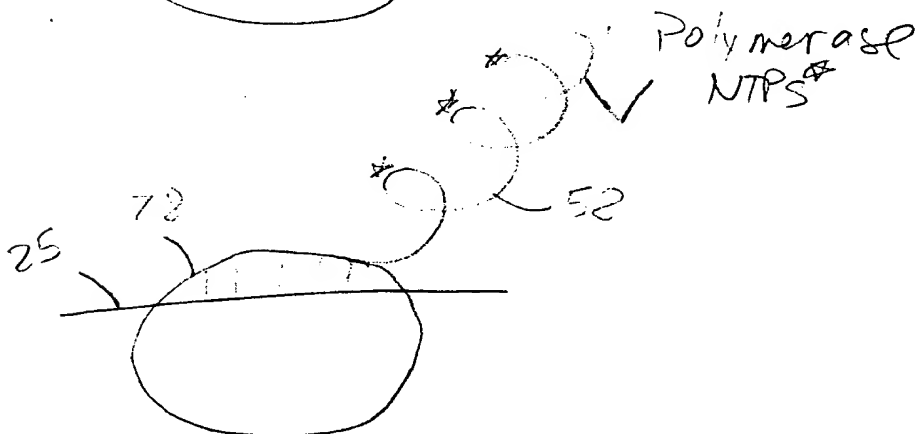


FIGURE 6 (cont)

d)

↓ Restriction
Endonuclease

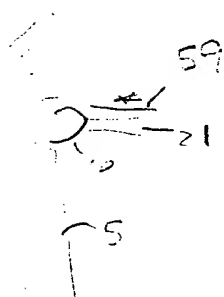
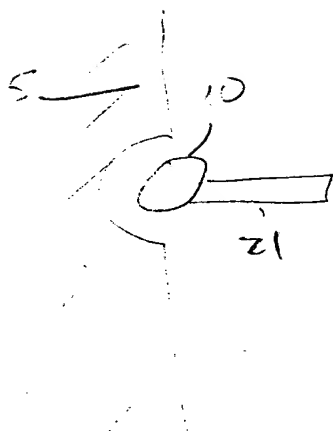
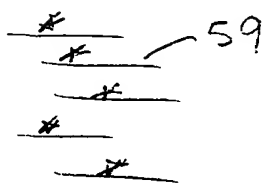
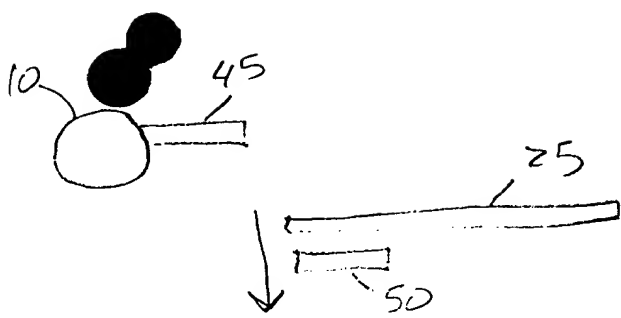


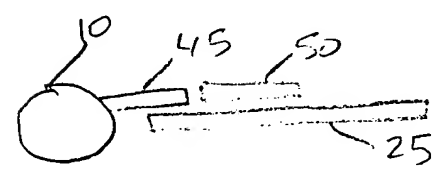
FIGURE 10

000240" E66E9560

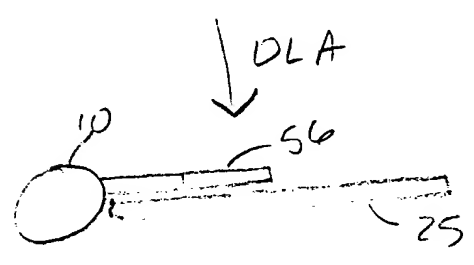
000240" E66E5560



A

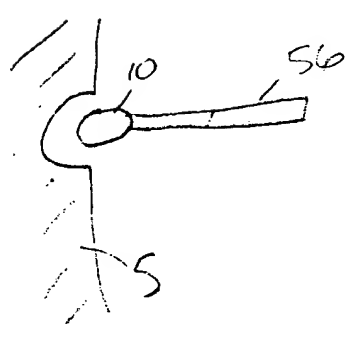


B



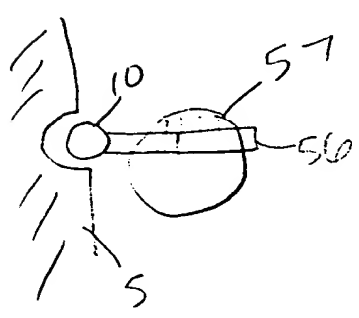
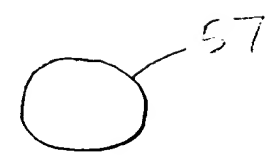
C

Derivative
Array



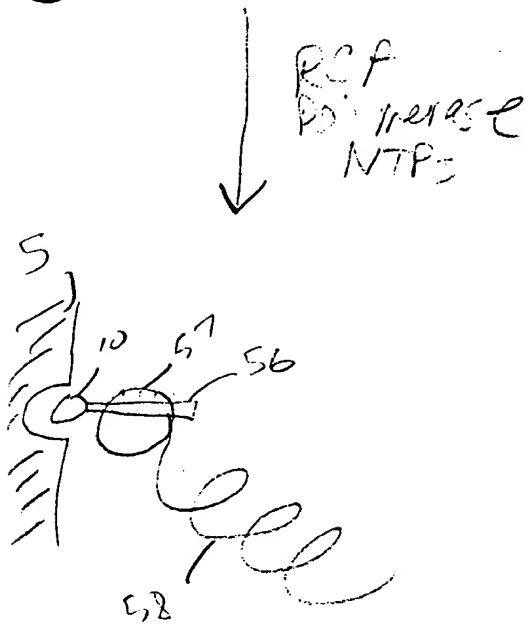
D

RCF primer



E

FIGURE 7 (cont)

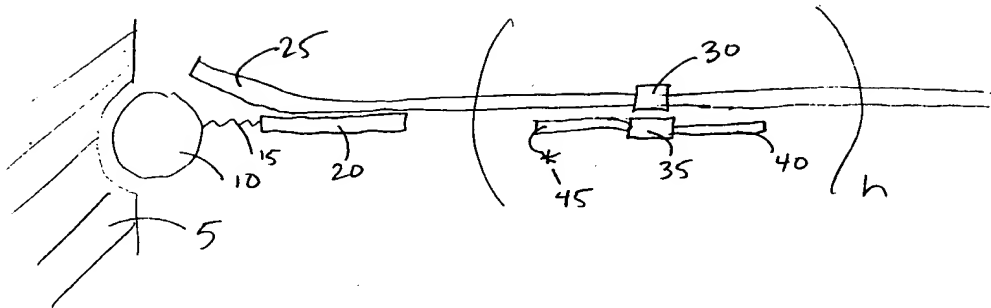


F

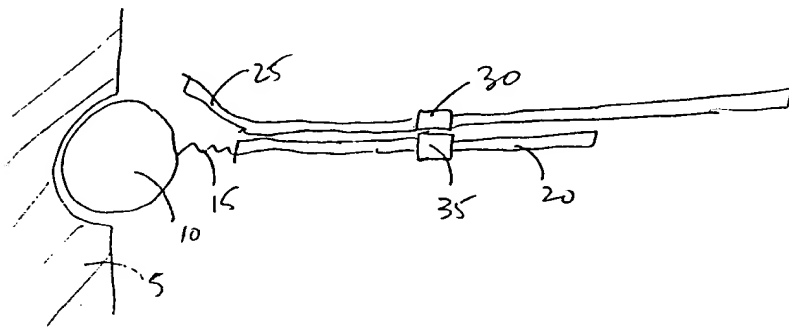
000240" E66E5560

FIGURE 7

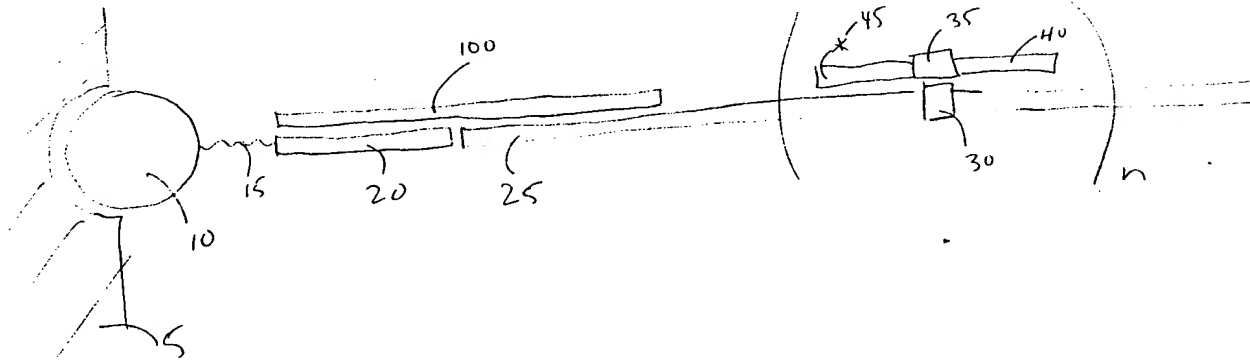
000240" E66E5560



A



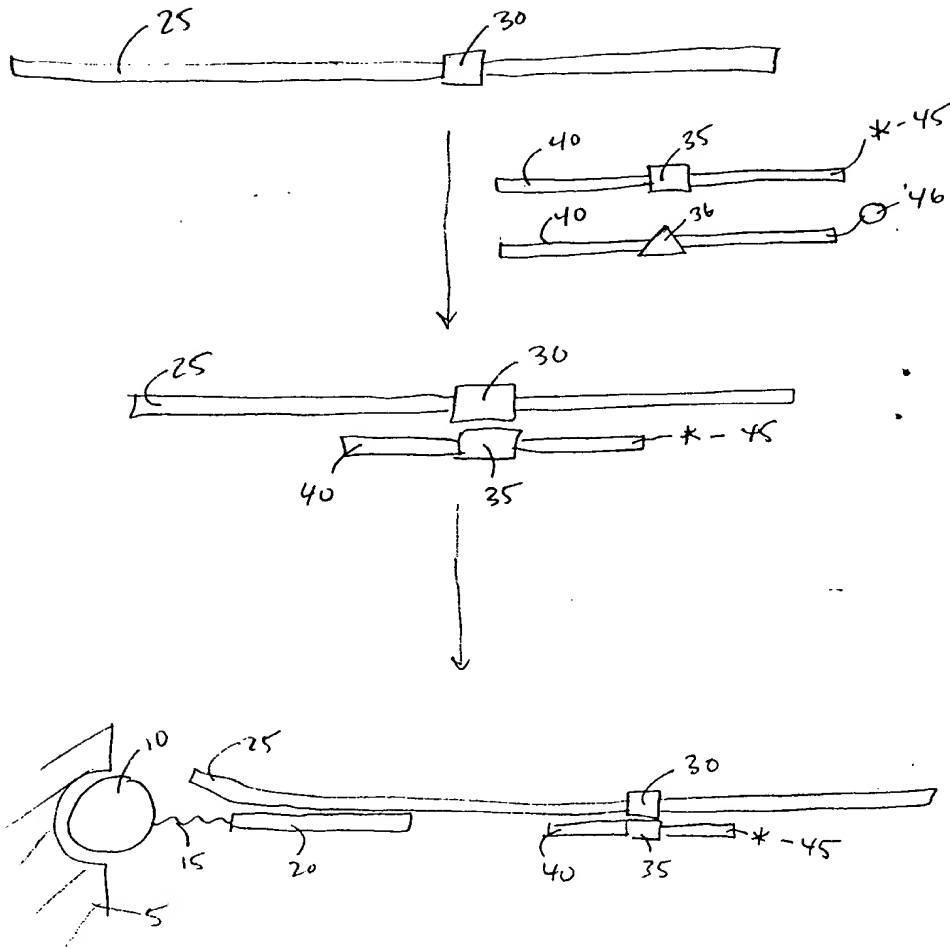
B



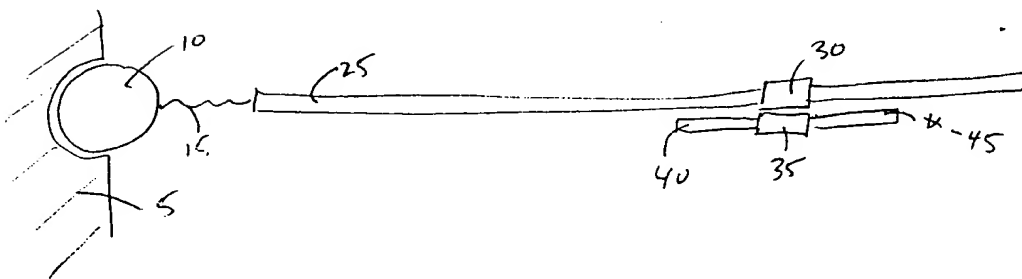
C

FIGURE 8 (cont)

000240" E66E5560



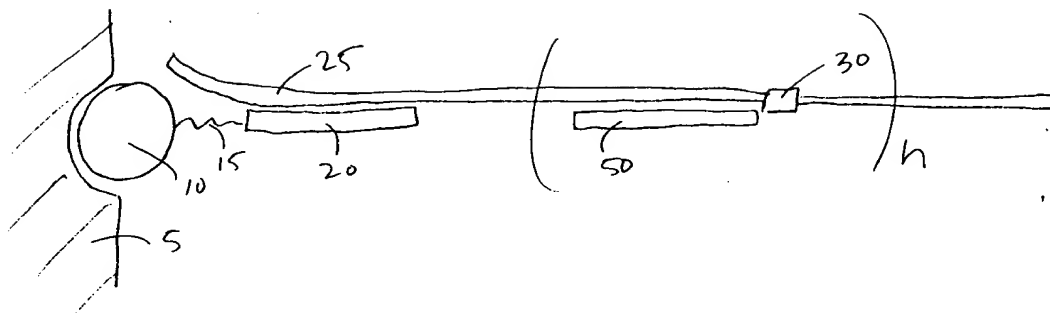
D



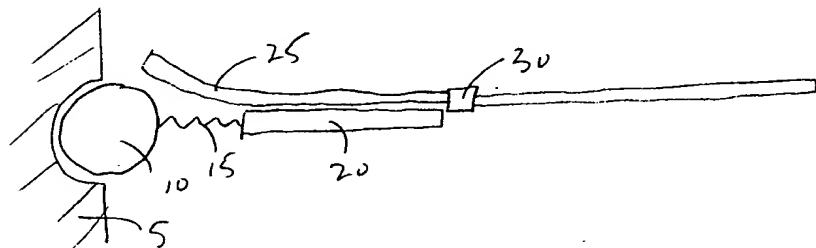
E

FIGURE 8

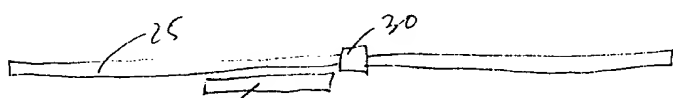
000240"E66E550



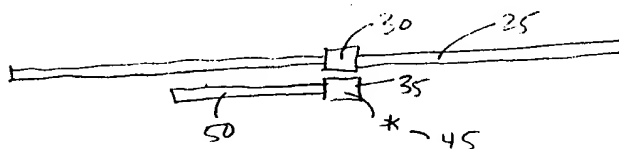
A



B



labelled NTP ↓ enzyme



optional
removal of
unextended
primers

↓ denature,
add to array

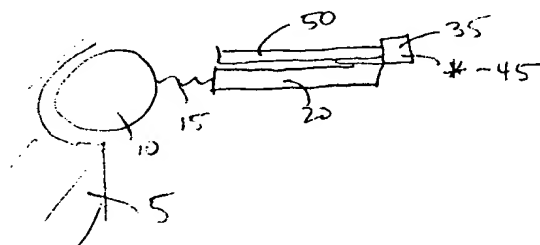


FIGURE 9 (cont)

000240" E66E5560

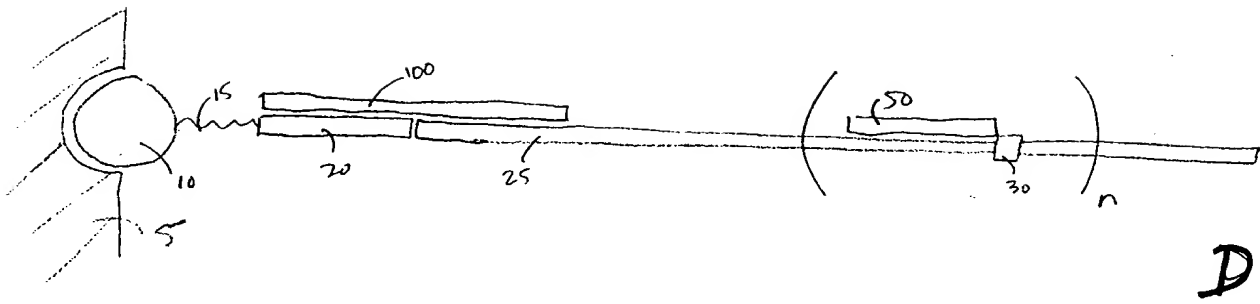
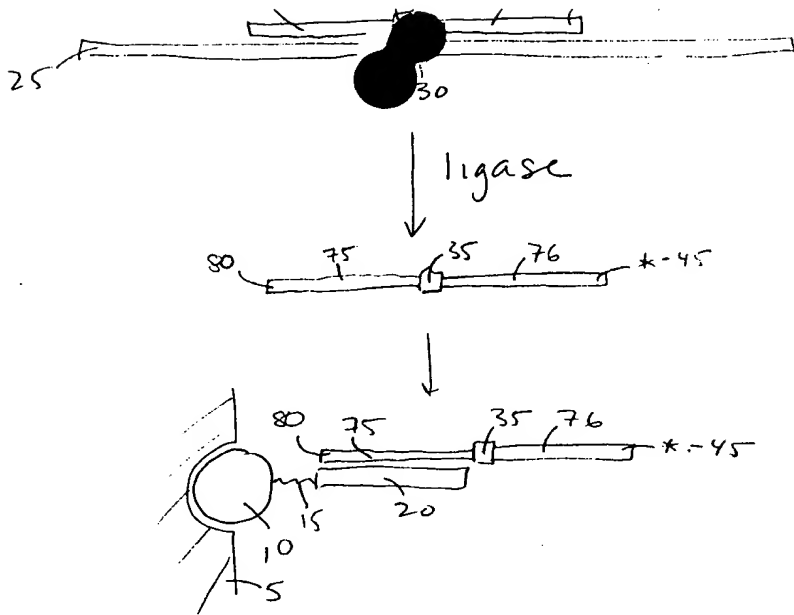
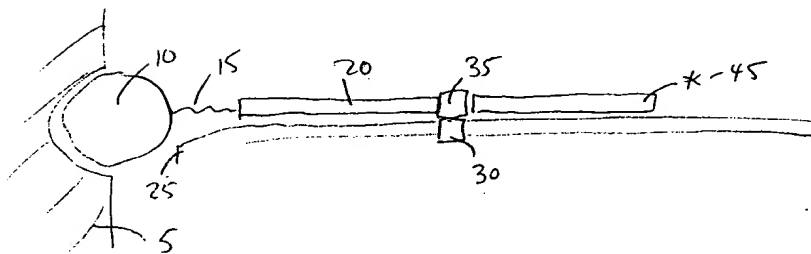


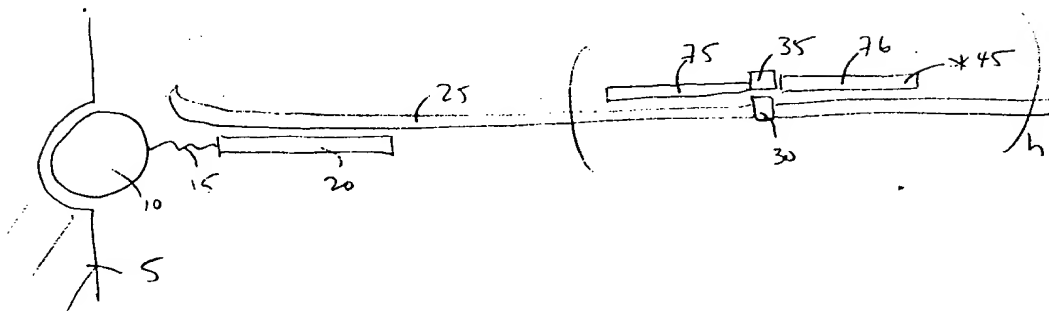
FIGURE 9



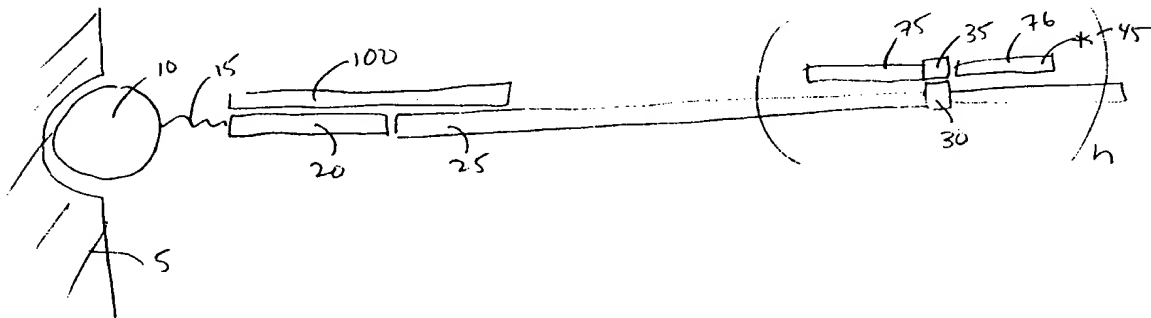
A



B



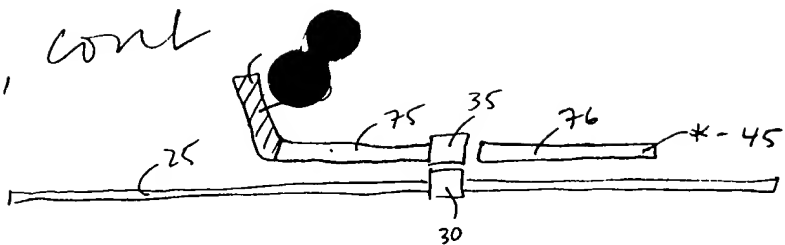
C



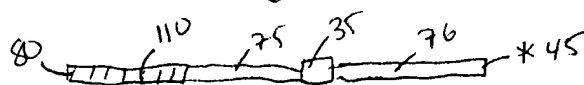
D

FIGURE 10 (cont)

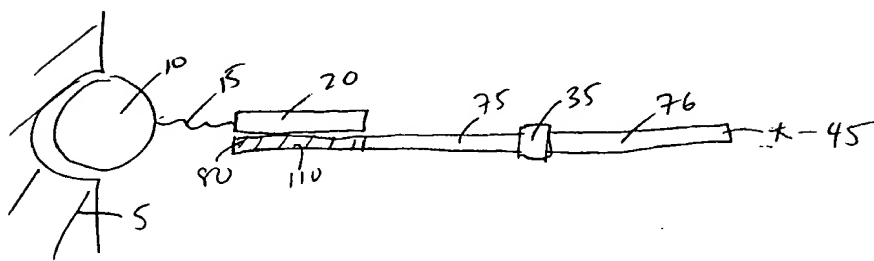
U 3, cont



↓
ligate



↓
to array



E

000240" E66E560

FIGURE 10

~~SPOLA~~

SPOLA Assay

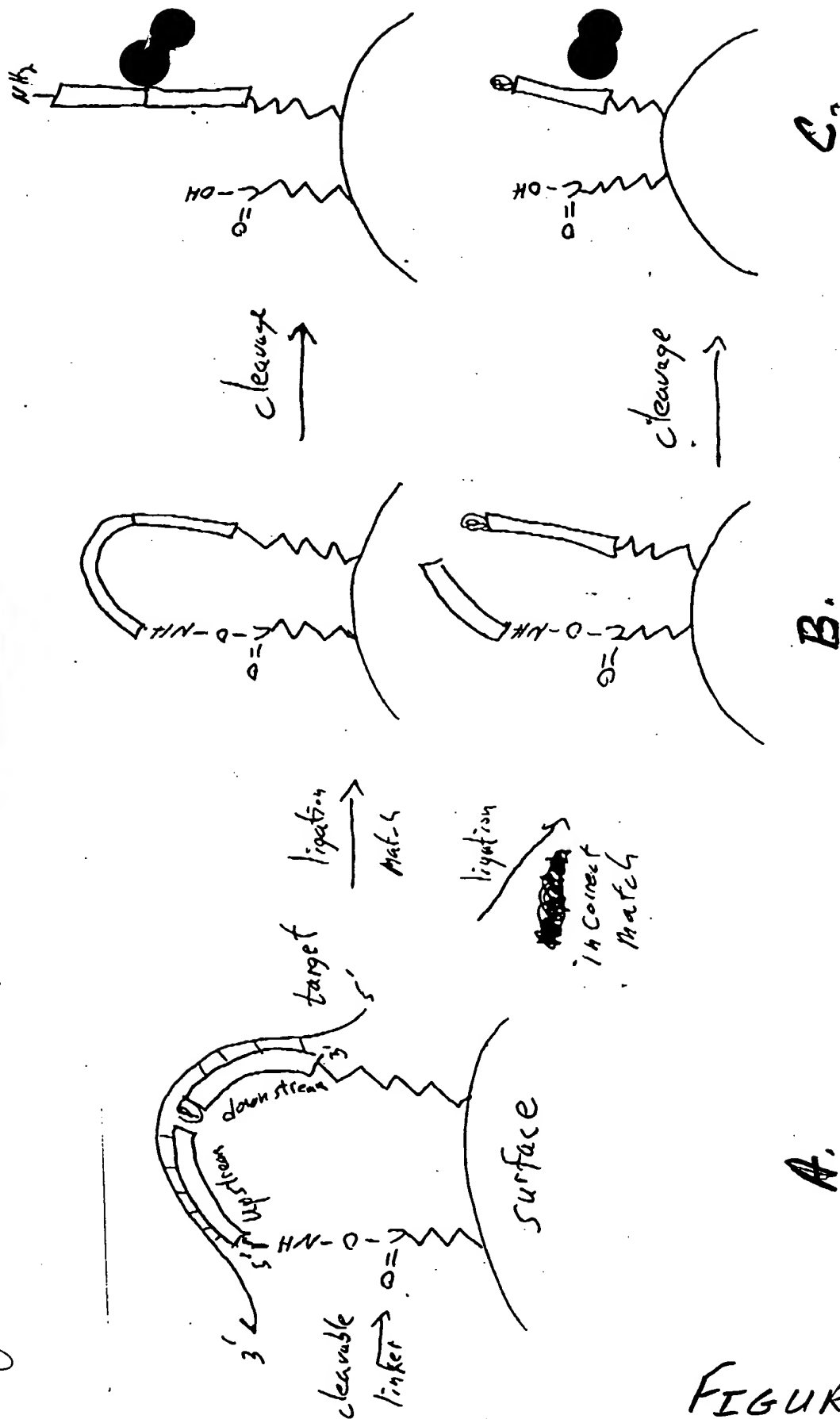
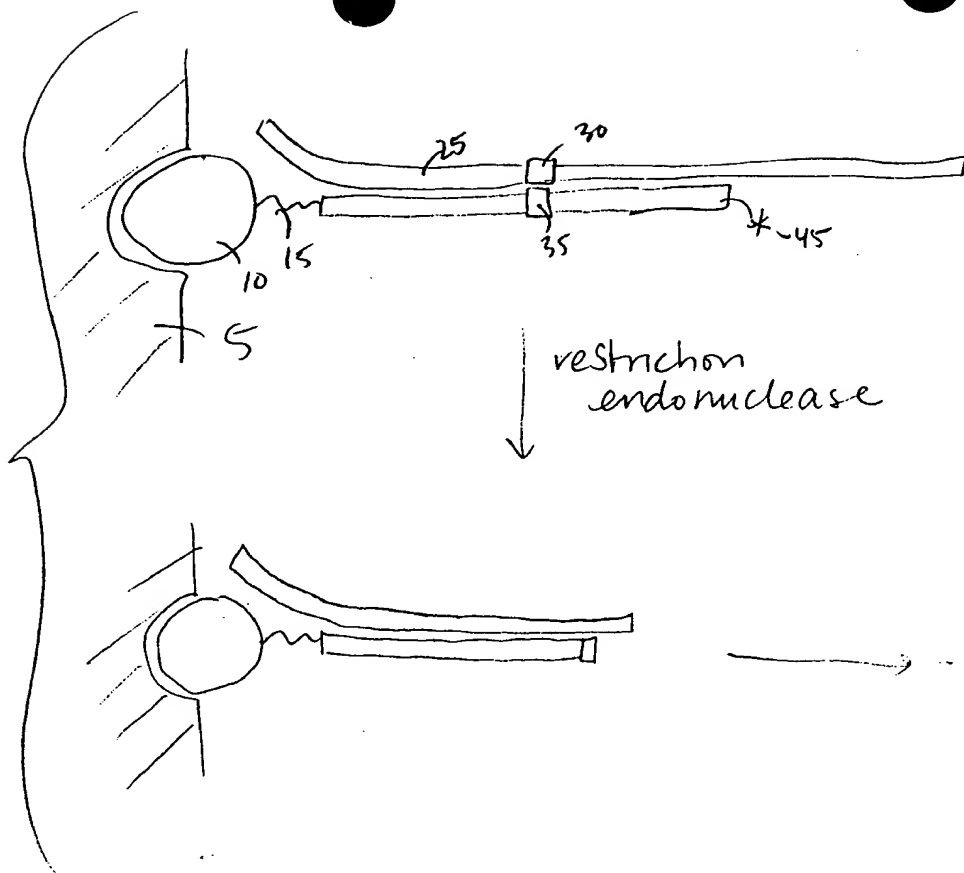


FIGURE 11

000240" E66E5560

A



B

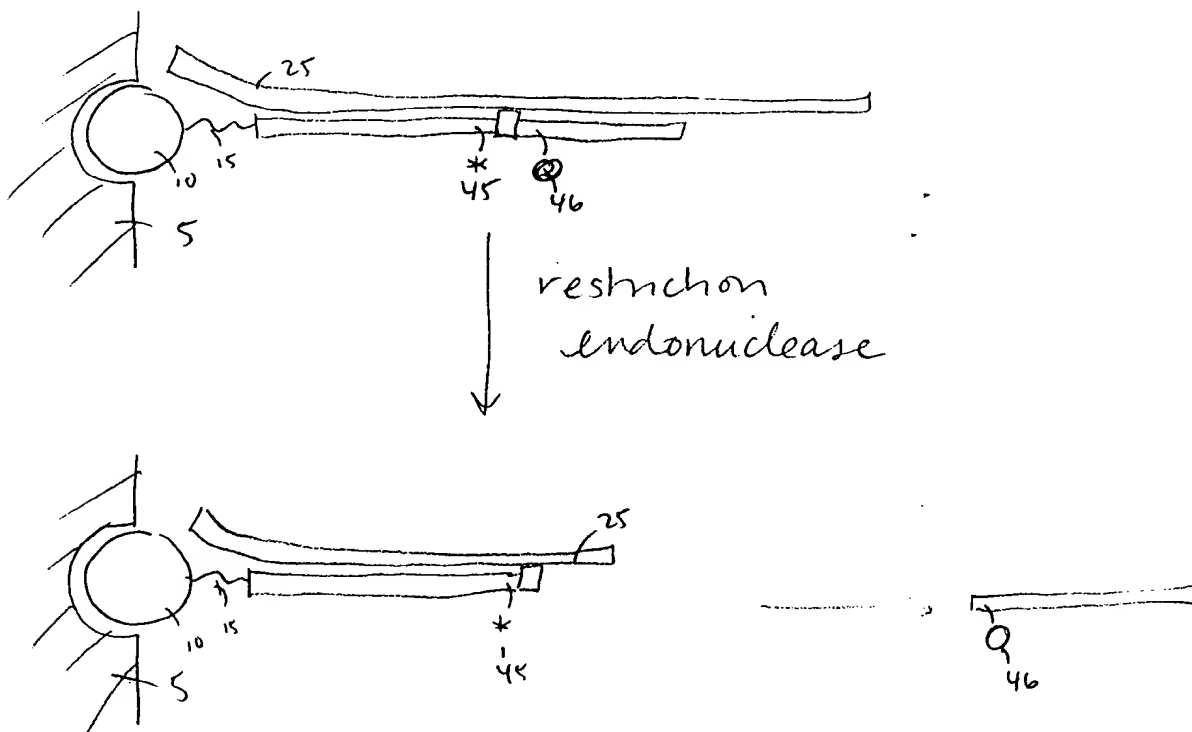
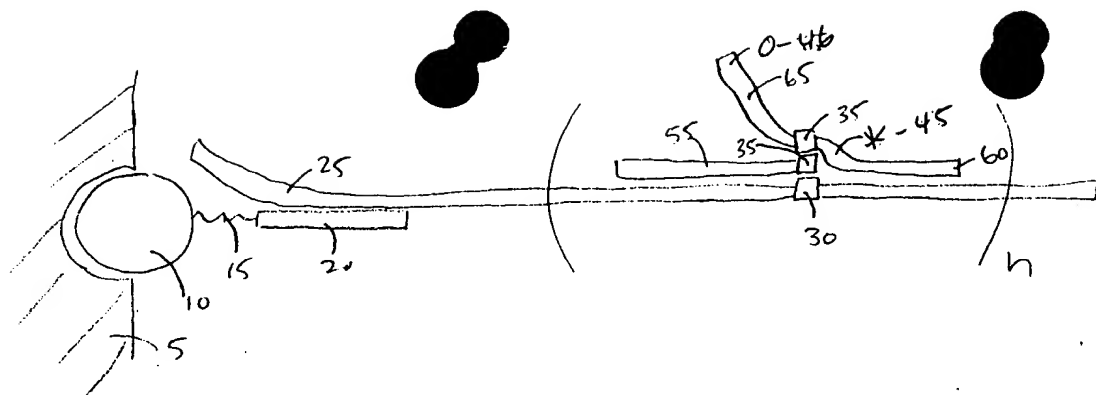
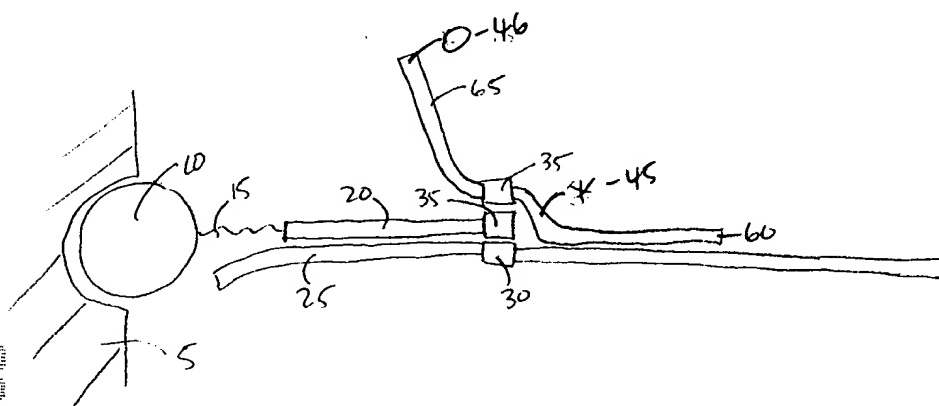


FIGURE 12

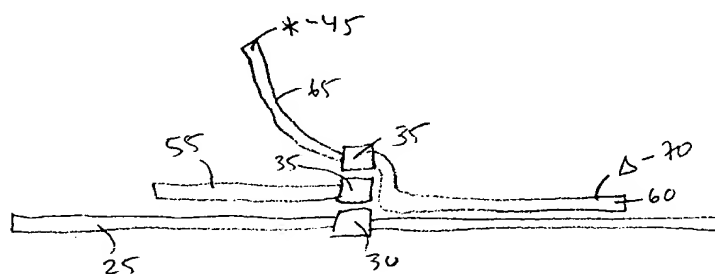
000240" E66E5560



A

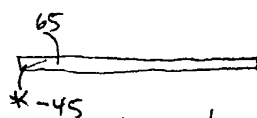


B



C

enzyme



optional remove uncleaved signal
add to array probe,

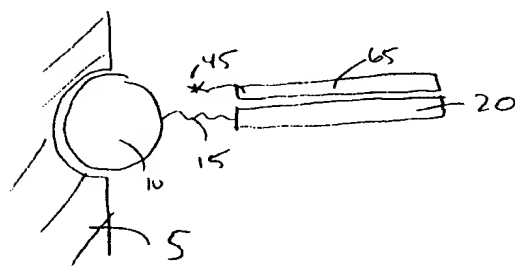
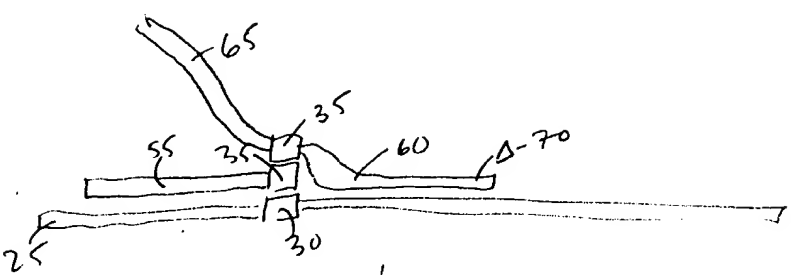
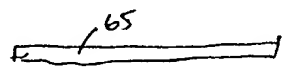


FIGURE 13 (cont)

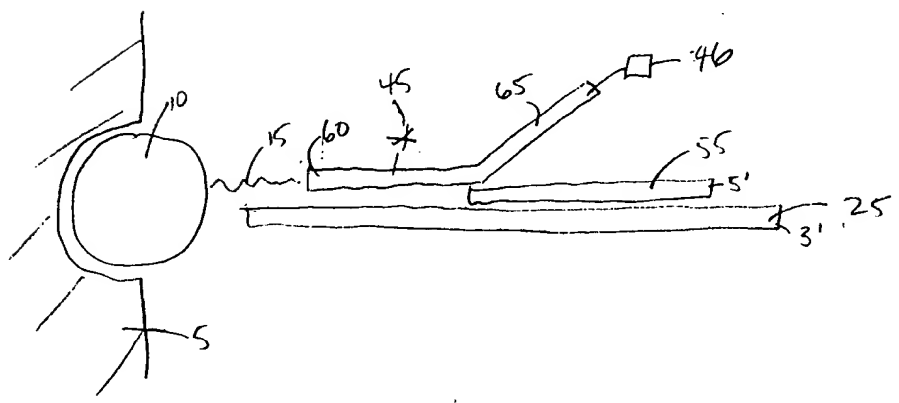
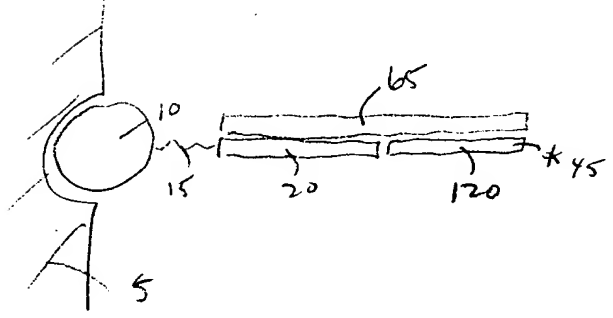
000240" E66E5560



enzyme



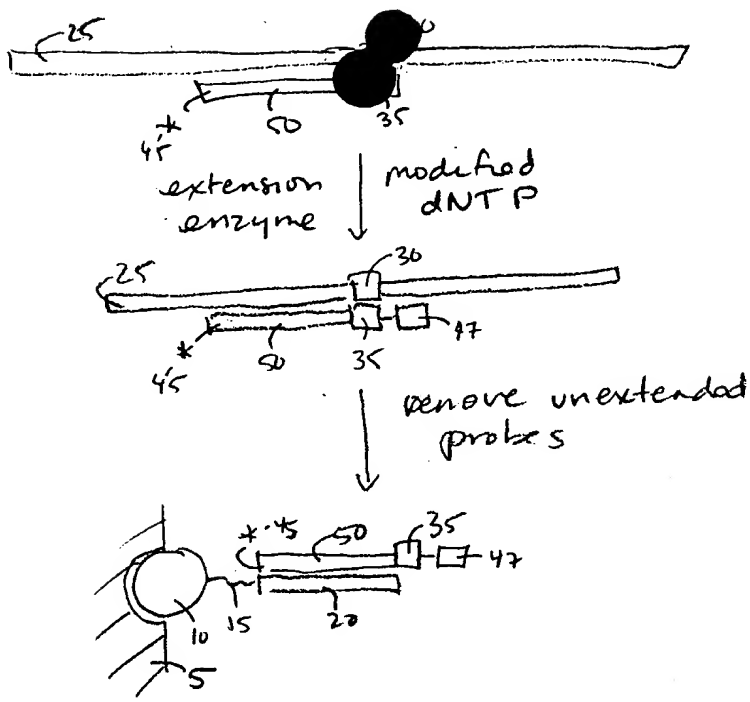
optional removal of
unreacted primers,
optional ligase



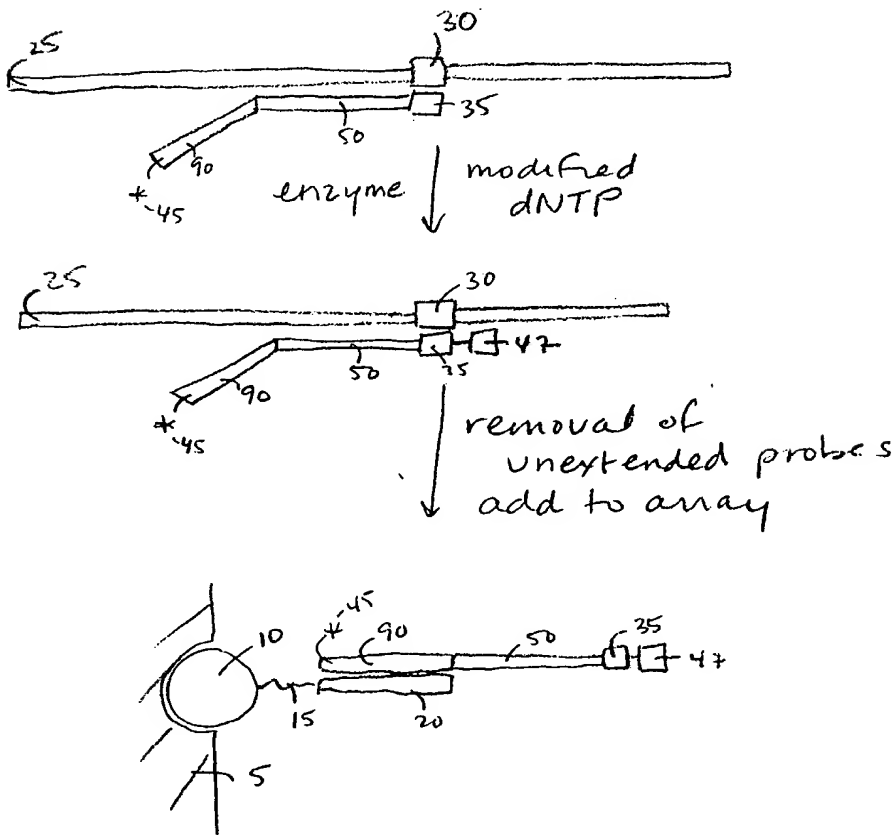
D

E

FIGURE 13



A



B

FIGURE 14 (cont)

000240" E66E5560

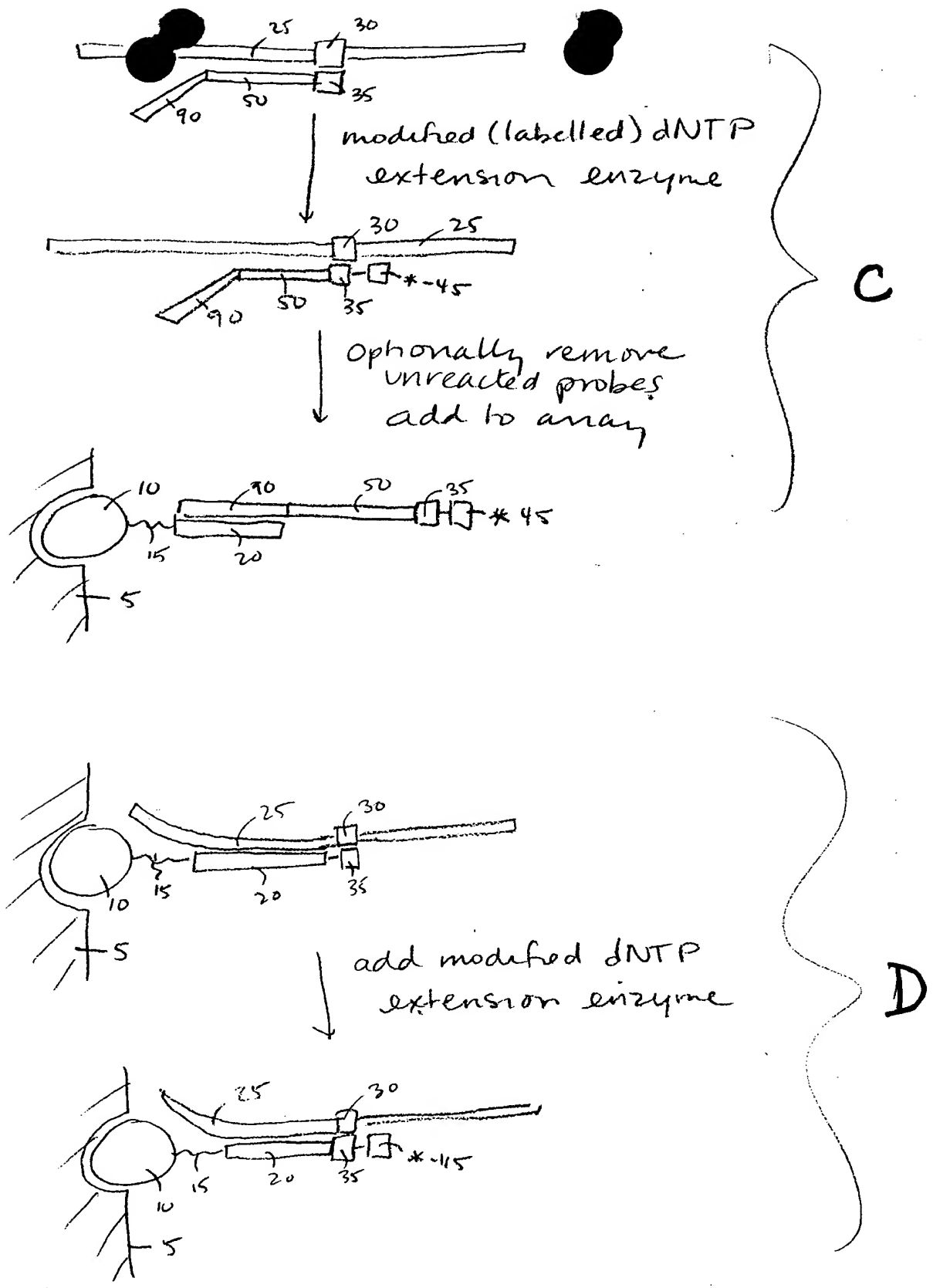
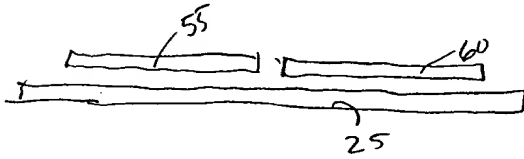
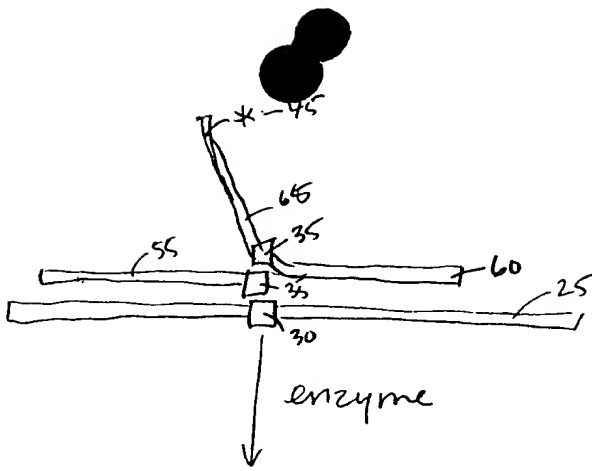
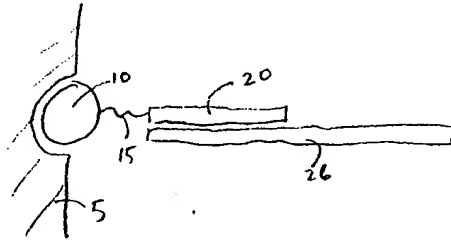


FIGURE 14

000240" 26625560

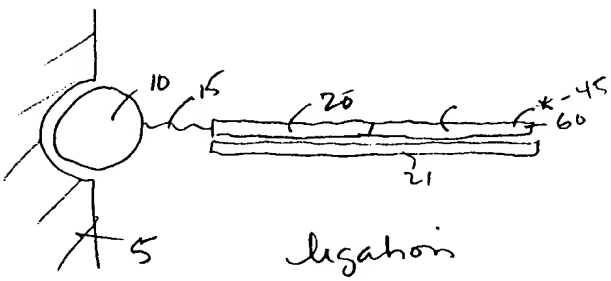


+



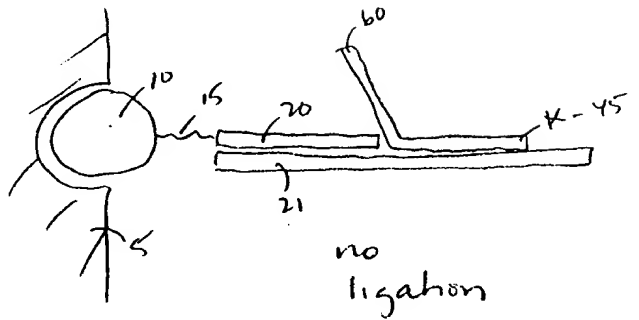
+

ligase



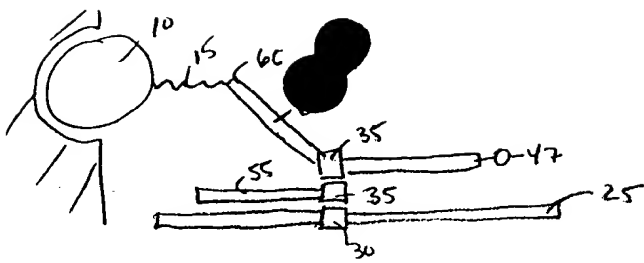
ligation

+

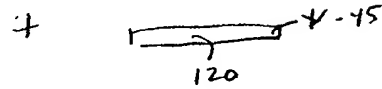
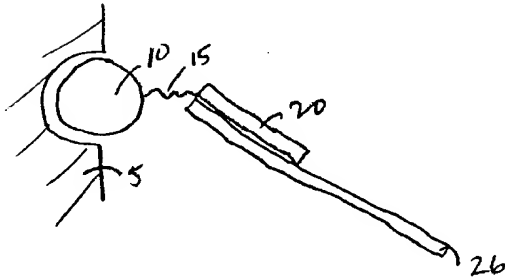


no ligation

FIGURE 15A



↓ cleavage enzyme
target template



↓ ligation

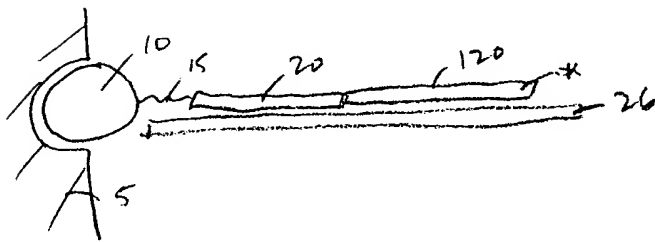


FIGURE 15B

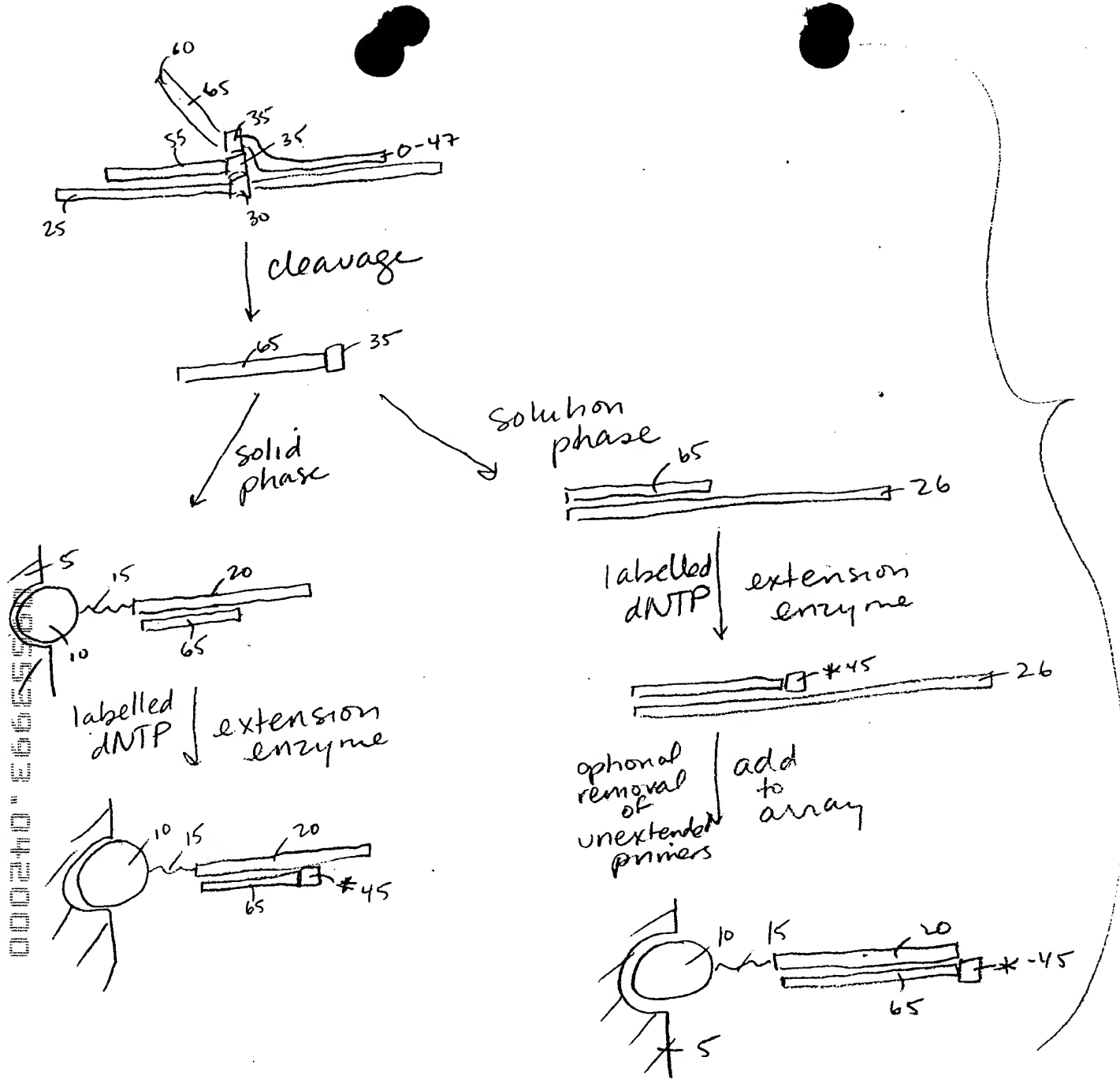


FIGURE 16A

000240" E66E5560

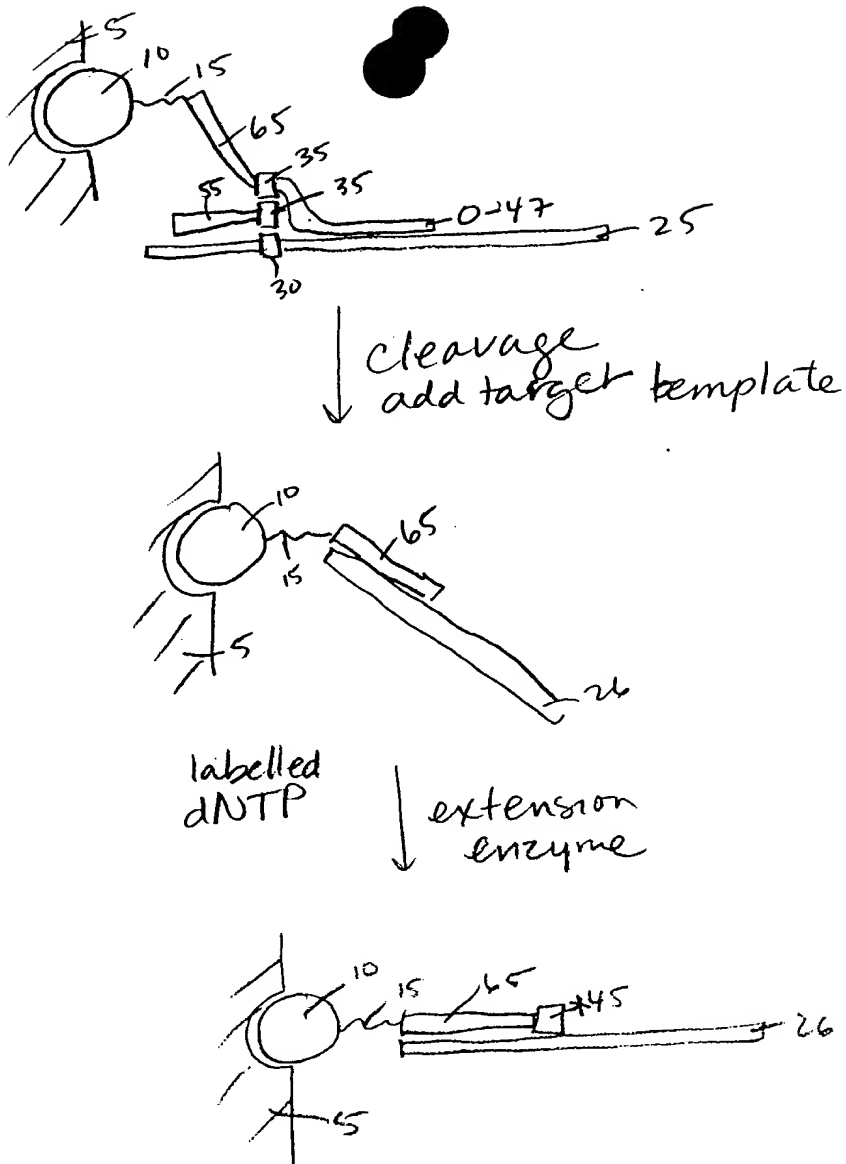


FIGURE 16 B

000240" E66E5560

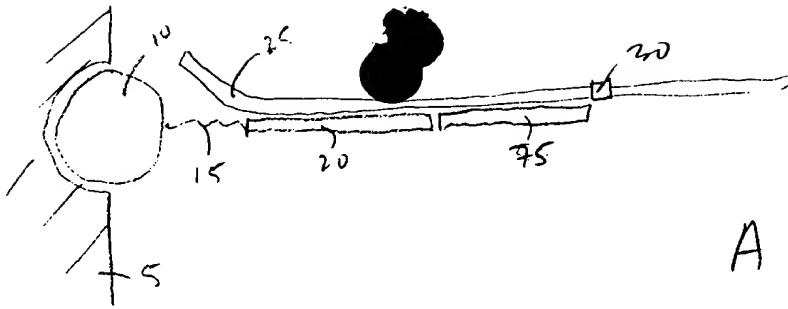
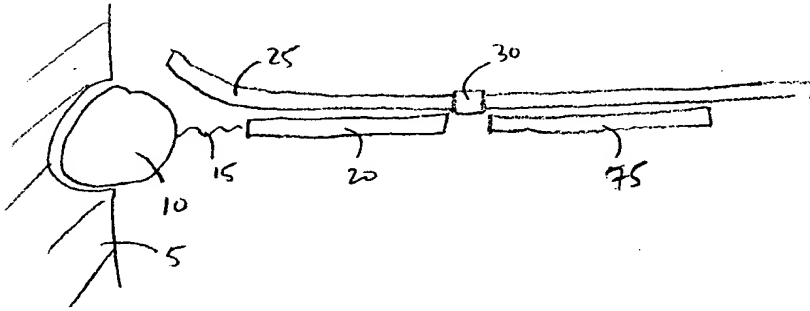
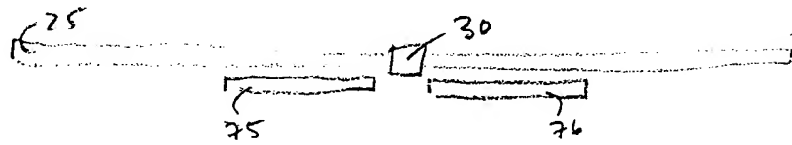


FIGURE 17

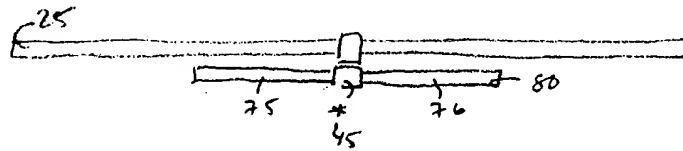
A



B



labeled dNTP
extension enzyme
ligase



optional
removal of
unextended
primers

denature
add to array

